

Technical data

Rotary cam switches OC 10...25 Amperes

Ratings according to IEC60947-3

				OC10	OC25
Rated operational power ¹⁾	AC-23A 3-phase	230 V	kW	1.8	2.6
		400 V	kW	3	7.5
		500 V	kW	-	4.8
		690 V	kW	-	4.8
	AC-23A 1-phase	230 V	kW	0.8	0.9
		400 V	kW	1.1	1.5
	AC-3 3-phase	230 V	kW	1.8	2.2
		400 V	kW	2.2	5.5
		500 V	kW	-	4
		690 V	kW	-	4
	AC-3 1-phase	230 V	kW	0.6	0.8
		400 V	kW	0.8	1.3
AC-4 3-phase	380...440 V	kW	0.55	4	
	660...690 V	kW	-	3	
Power loss per contact - at rated I_{th}	Standard contacts		W	≤ 0.6	≤ 1.8
Contact resistance	Standard contacts		Ohms	≤ 0.004	≤ 0.003
Power loss per contact - at rated I_{th}	Gold contacts		W	0.4	≤ 1.8
Contact resistance	Gold contacts		Ohms	≤ 0.006	≤ 0.003
Minimum switching capacity	Gold contacts		mA	5	5
	Gold contacts		V AC/DC	5	5
Terminals	Max cable cross section, solid/ stranded ³⁾		mm ²	0.5...1.5	1.5...4
Mechanical endurance ⁵⁾	8 Contacts and less		Number	500 000	500 000
	9 to 14 Contacts		of	300 000	300 000
	15-24 Contacts		operations	100 000	100 000
Temperature	Storing and operational ²⁾ temperature		°C	-40...+80	-40...+85

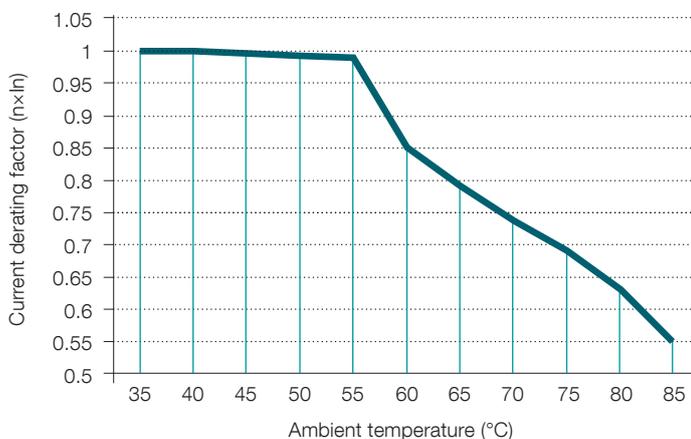
²⁾ At 40°C, derating 0%. Current peaks up to 60°C, derating 0%. For higher temperatures, see derating curve below.

³⁾ Use copper wire only.

⁴⁾ These values are given for guidance and may vary acc. to the motor manufacturer.

⁵⁾ The mechanical endurance ratings are dependent on the switching angles and the number of contacts. The ratings shown represent the minimum values achieved. Higher ratings may be available upon request.

Derating for ambient temperature



Technical data

Rotary cam switches OC 10...25 Amperes

Ratings according to UL 60947-4-1

Standards UL 60947-1, UL 60947-4-1, CSA C22.2 no. 60947-1-13, CSA C22.2 no. 60947-4-1-14.

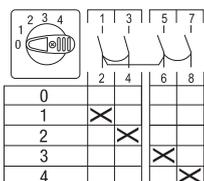
Model designation		OC10	OC25	
Maximum general use ratings:				
Pilot duty, V ac		V ac	A300	A600
General rating, A		A	10	25
Voltage rating, 50/60 Hz, V ac		V ac	300	600
Single phase horsepower ratings				
Voltage, V ac, 50/60 Hz	120 V	HP	0.33	0.75
		FLA	7.2	13.8
	240 V	HP	1	2
		FLA	8.0	12.0
	480 V	HP	-	3
		FLA	-	8.5
	600 V	HP	-	3
		FLA	-	6.8
Three phase horsepower ratings				
Voltage, V ac, 50/60 Hz	120 V	HP	1	2
		FLA	8.4	13.6
	240 V	HP	1.0	3
		FLA	4.2	9.6
	480 V	HP	-	5
		FLA	-	7.6
	600 V	HP	-	7.5
		FLA	-	9.0
Short circuit ratings, manual motor controllers				
Short circuit ratings			1 kA rms, 300 Vac	5 kA rms, 600 Vac
Maximum fuse size (Fuse class)			30 A (RK5)	35 A (RK5)
Cabling				
Wire range		AWG	14**	14-10**

** Solid or stranded copper conductors only.

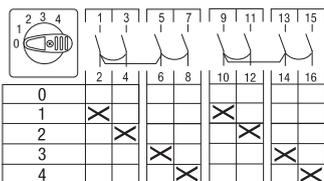
The standard for Industrial Control Equipment UL 508 has been harmonized with the relevant product standards of the IEC standard for Low-Voltage Switchgear and Controlgear IEC 60947.

Ordering information

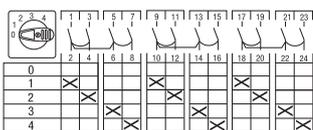
Rotary cam switches, standard



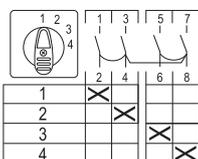
OC_S041



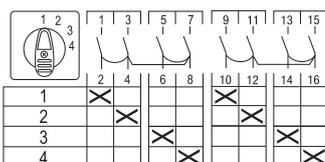
OC_S042



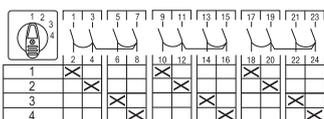
OC_S043



OC_ST41



OC_ST42



OC_ST43

Multistep switches

The handle and front plate with position indication are included according to the table below. The round front ring: to be used in situations when position indications are on the door of the enclosure. Step angle 30°

Function	Number of poles/contacts	Rated thermal current I_n [A]	Type	Order number	Weight/unit [kg]
4- step, with 0-position, door mounted					
Snap-on mounted black nose handle, black front frame and silver front plate					
0-1-2-3-4	1 / 4	10	OC10G04PNBN00NSO41	1SCA126586R1001	0.045
0-1-2-3-4	2 / 8	10	OC10G08PNBN00NSO42	1SCA126587R1001	0.065
0-1-2-3-4	3 / 12	10	OC10G12PNBN00NSO43	1SCA126588R1001	0.084
0-1-2-3-4	1 / 4	25	OC25G04PNBN00NSO41	1SCA126589R1001	0.109
0-1-2-3-4	2 / 8	25	OC25G08PNBN00NSO42	1SCA126590R1001	0.155
0-1-2-3-4	3 / 12	25	OC25G12PNBN00NSO43	1SCA126591R1001	0.201
4- step, without 0-position, door mounted					
Snap-on mounted black nose handle, black front frame and silver front plate					
1-2-3-4	1 / 4	10	OC10G04PNBN00NST41	1SCA126592R1001	0.045
1-2-3-4	2 / 8	10	OC10G08PNBN00NST42	1SCA126593R1001	0.065
1-2-3-4	3 / 12	10	OC10G12PNBN00NST43	1SCA126594R1001	0.084
1-2-3-4	1 / 4	25	OC25G04PNBN00NST41	1SCA126595R1001	0.109
1-2-3-4	2 / 8	25	OC25G08PNBN00NST42	1SCA126598R1001	0.155
1-2-3-4	3 / 12	25	OC25G12PNBN00NST43	1SCA126599R1001	0.201
Screw mounted black nose handle, black front frame and silver front plate					
1-2-3-4	1 / 4	25	OC25G04RNBN00NST41	1SCA126597R1001	0.180
Snap-on mounted black nose handle with round black front ring, no engraving					
1-2-3-4	1 / 4	25	OC25G04PXBN00NST41	1SCA126596R1001	0.103

For more options of standard cam switches, see Order code configuration, pages 40...56.